

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P248165

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150830 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13964.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

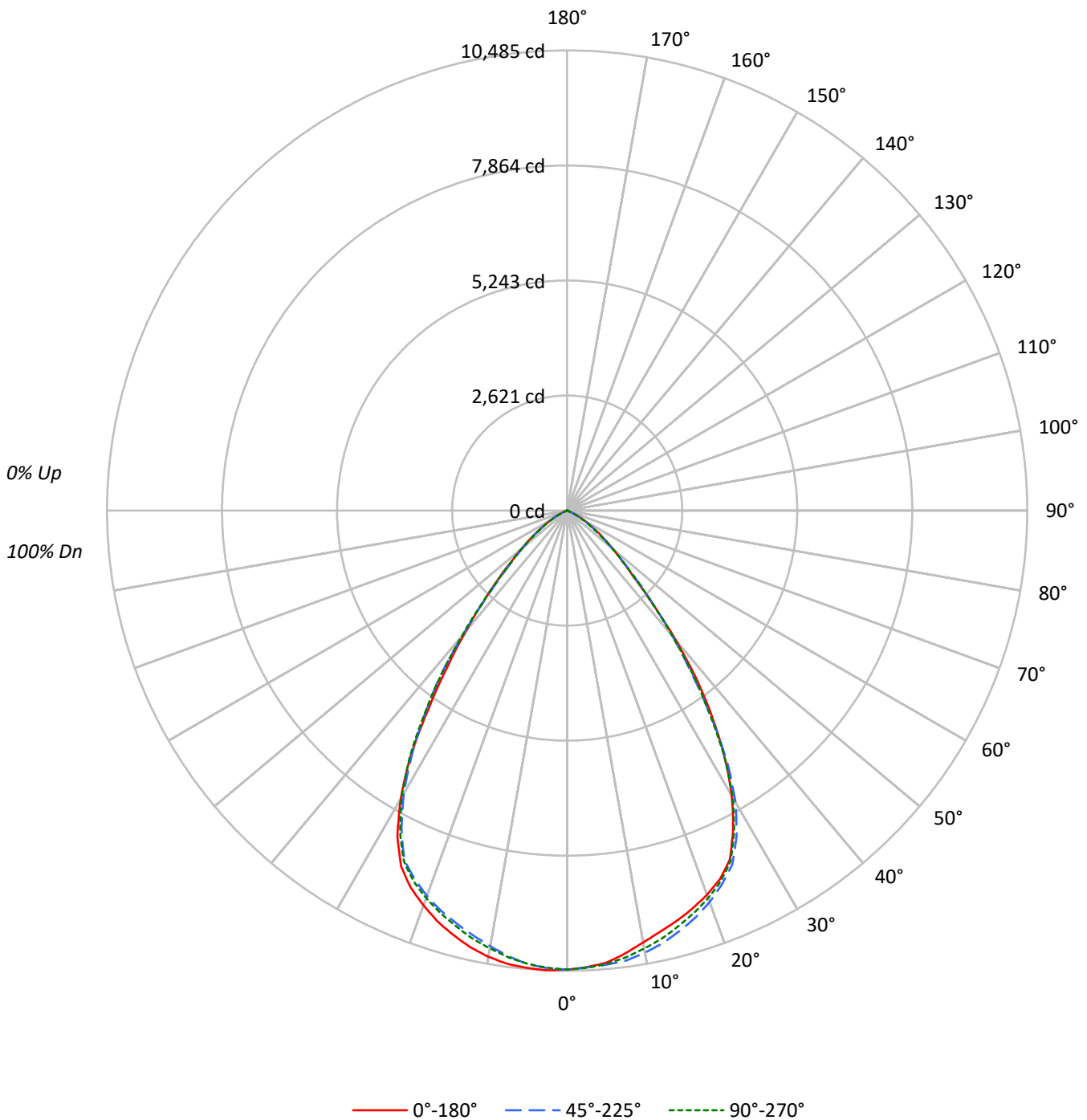
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	322511	322511	322511
5°	320022	320917	323833
10°	312823	317250	323271
15°	308808	312952	319675
20°	305658	308339	314115
25°	298497	299708	304485
30°	267182	268553	270059
35°	217745	213363	207066
40°	154414	150119	144580
45°	94148	95739	97671
50°	65046	63847	65185
55°	44149	41047	42343
60°	28647	24971	26211
65°	15089	11995	12907
70°	3985	3381	3038
75°	691	1370	798
80°	0	0	337
85°	672	672	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.4	7.0
10°-20°	2770.3	19.8
20°-30°	3994.9	28.6
30°-40°	3508.4	25.1
40°-50°	1774.1	12.7
50°-60°	726.1	5.2
60°-70°	190.9	1.4
70°-80°	13.5	0.1
80°-90°	2.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7748.6	55.5
0°-40°	11257.0	80.6
0°-60°	13757.2	98.5
0°-90°	13964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13964.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10459	10459	10459	10459	10459	
5°	10339	10386	10368	10368	10462	975
15°	9673	9913	9803	9740	10014	2730
25°	8773	8899	8809	8777	8949	3963
35°	5784	5685	5668	5644	5501	3566
45°	2159	2260	2195	2140	2240	1781
55°	821	788	764	762	788	759
65°	207	184	164	162	177	211
75°	6	4	12	4	7	15
85°	2	2	2	1	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10458.8	10458.8	10458.8	10458.8	10458.8	10458.8	10458.8	10458.8	10458.8
2.5°	10410.7	10461.7	10416.5	10443.4	10425.2	10395.4	10436.7	10417.5	10484.8
5°	10338.6	10400.2	10385.7	10419.4	10367.5	10312.7	10367.5	10372.3	10461.7
7.5°	10174.2	10280.0	10340.5	10380.9	10266.5	10177.1	10242.5	10301.1	10416.5
10°	9990.5	10118.4	10228.0	10290.5	10131.9	10001.1	10079.0	10179.0	10324.2
12.5°	9821.3	9962.6	10092.4	10153.0	9985.7	9838.6	9912.6	10036.7	10192.5
15°	9673.2	9789.5	9912.6	9975.1	9803.0	9663.6	9739.5	9854.0	10013.6
17.5°	9503.9	9613.5	9722.2	9771.3	9611.6	9490.5	9559.7	9657.8	9816.5
20°	9314.5	9408.7	9491.4	9549.1	9396.2	9280.8	9343.3	9434.7	9572.2
22.5°	9092.3	9163.5	9217.3	9269.3	9145.2	9030.8	9084.6	9156.8	9302.0
25°	8773.1	8845.2	8899.0	8957.7	8808.7	8710.6	8776.9	8807.7	8949.1
27.5°	8188.4	8279.7	8360.5	8412.5	8242.2	8157.6	8174.9	8225.9	8375.9
30°	7503.7	7547.9	7671.0	7686.4	7542.2	7395.0	7442.2	7496.0	7584.5
32.5°	6690.2	6715.2	6786.3	6794.0	6686.3	6572.8	6573.8	6549.8	6639.2
35°	5784.3	5727.5	5685.2	5714.1	5667.9	5688.1	5643.9	5533.3	5500.6
37.5°	4848.6	4812.1	4626.5	4612.0	4719.7	4785.1	4741.9	4495.7	4478.4
40°	3836.0	3794.6	3725.4	3714.8	3729.3	3766.8	3686.9	3613.9	3591.7
42.5°	2870.5	2892.6	2914.7	2934.9	2893.6	2812.8	2809.0	2795.5	2847.4
45°	2158.9	2206.0	2259.9	2286.8	2195.4	2132.9	2139.7	2169.5	2239.7
47.5°	1706.9	1716.5	1736.7	1759.8	1706.0	1626.1	1647.3	1695.4	1726.1
50°	1355.9	1365.5	1359.8	1356.9	1330.9	1282.8	1312.6	1348.2	1358.8
52.5°	1069.3	1056.8	1046.3	1039.5	1023.2	1004.0	1009.7	1039.5	1055.9
55°	821.2	811.6	788.5	778.9	763.5	758.7	761.6	784.7	787.6
57.5°	617.4	603.9	580.8	562.6	563.5	555.8	559.7	576.0	584.7
60°	464.5	455.8	415.4	418.3	404.9	402.9	411.6	421.2	425.0
62.5°	321.2	324.1	293.3	289.5	282.7	283.7	289.5	297.1	298.1
65°	206.8	194.3	183.7	176.0	164.4	158.7	162.5	183.7	176.9
67.5°	80.8	85.6	69.2	80.8	75.0	63.5	73.1	81.7	77.9
70°	44.2	45.2	37.5	35.6	37.5	34.6	39.4	44.2	33.7
72.5°	27.9	27.9	20.2	20.2	26.0	17.3	20.2	31.7	25.0
75°	5.8	6.7	3.8	1.9	11.5	5.8	3.8	11.5	6.7
77.5°	0.0	6.7	0.0	0.0	0.0	0.0	1.9	1.9	1.9
80°	0.0	0.0	0.0	2.9	0.0	0.0	0.0	1.9	1.9
82.5°	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.9	0.0
85°	1.9	7.7	1.9	0.0	1.9	1.9	1.0	5.8	1.9
87.5°	12.5	5.8	1.0	5.8	4.8	5.8	6.7	5.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)